Give tilde approximations for the following quantities:

1. N + 1 = ~N

2. 1 + 1/N = ~1/N

3. (1 + 1/N )(1 + 2/N ) = ~2/N^2

4. 2N^3 - 15 N^2 + N = ~2N^3

5. lg(2N )/lg N = ~lg(2N)

6. lg(N^2 + 1) / lg N = ~lg(N^2)